

[a compression step of] compressing-coding [said] the image data using the compression parameters estimated in [said] the parameter estimation step,

wherein [said] the trial compressing-coding step [is for obtaining the] obtains [the] an
10 image capturing [conditions] condition of [said] the image data and [changing said] changes the
trial compression parameters [for trial] according to [said] one of the image capturing [conditions
or] condition and classification of the image capturing [conditions] condition.

2. (Amended) A compression coding method comprising the steps of:

[a] trial [step of] compressing-coding [the] image data using [the] trial compression parameters [for trial];

[a parameter estimation step of] estimating [the] compression parameters to compress
5 [said] the image data to a target code volume by fitting [said] the image data compression result
[into said] from the trial compressing-coding step to ["]a statistical relationship between the
compression parameters and the code volume["] obtained by trial compressing-coding [plural] a
plurality of test images [in advance as a trial]; and

[a compression step of] compressing-coding [said] the image data using the compression
10 parameters estimated in [said] the parameter estimation step,

wherein [said] the parameter estimation step [is for preparing said] prepares the statistical relationship for at least one of an [each] image capturing condition [or] and a classification of image capturing [conditions,] condition; and

selectively using [said] the statistical relationship according to [said] the image data capturing condition.

3. (Amended) A compression coding method comprising the steps of:

[a] trial [step of] compressing-coding image data by orthogonal transformation using [the] trial compression parameters [for trial];

[a parameter estimation step of] estimating [the] compression parameters to compress [said] the image data to a target volume based on [said] the image data compression result in [said] the trial compressing-coding step[,] ; and

[a compression step of] compressing-coding [said] the image data using the compression parameters estimated in [said] the parameter estimation step,

wherein [said] the compression step [is for obtaining] obtains the image capturing [conditions] condition of [said] the image data and [modifying] modifies the compression parameters estimated in [said] the parameter estimation step according to [said] at least one of an image capturing [conditions or] condition and classification of the image capturing [conditions] condition.

4. (Amended) A compression coding method comprising the steps of:

[a] trial [step of] quantizing and encoding the image data after an orthogonal transformation using a code volume allocation distribution in a frequency domain [which is] determined by multiplying [the] a standard code volume allocation distribution in the frequency domain by a trial scale factor [for trial,] ; [and]

determining a code volume of [said] the image data;

[a parameter estimation step of] estimating a scale factor for compressing [said] the image data to a target code volume based on the code volume of [said] the image data determined in [said] the trial step; and

[a compression step of] quantizing and encoding [said] the image data after an orthogonal transformation using a code volume allocation distribution in a frequency domain determined by multiplying the standard code volume allocation distribution of [said] the frequency domain by the scale factor estimated in [said] the parameter estimation step,

wherein [said] the trial step and [said] the compression step [are for preparing the plural] prepare a plurality of standard code volume allocation [distribution] distributions in [said] the frequency domain for at least one of an [each] image capturing condition [or] and a classification of the image capturing [conditions,] condition; and

selectively using the standard code volume allocation distribution in [said] the frequency domain according to the image capturing condition of [said] the image data.

5. (Amended) A compression coding method comprising the steps of:

[an orthogonal transformation step of] performing an orthogonal transformation on [the] image data and determining transform coefficients;

[a quantization step of] quantizing the transform coefficients [determined in said
5 orthogonal transformation step] according to [the] a code volume allocation distribution in [the] a
frequency domain; and

[an encoding step of] encoding the transform coefficients quantized in [said] the
quantization step,

wherein [said] the quantization step [is for changing] changes a compression allocation in
10 the frequency domain by changing the code volume allocation distribution [in said the frequency
domain] according to [the] at least one of an image capturing condition of [said] the image data
[or] and a classification of the image capturing [conditions] condition.

6. (Amended) The compression coding method according to any one of Claim 1 to
Claim 5, wherein [said] the image capturing condition is at least one of [the conditions of the
image capturing sections which capture said image data, that is,] an image capturing sensitivity

setting, a signal gain, a gamma correction curve, a use of electronic zoom, a magnification ratio of
5 electronic zoom, shutter speed, white balance adjustment value, special image effect and tone.

7. (Amended) The compression coding method according to any one of Claim 1 to
Claim 5, wherein [said] the image capturing condition is at least one of [the conditions of
photographing environment in which said image data was captured, that is,] a use of a strobe
light, a use of slow synchronization strobe light, a use of daylight synchronization strobe light, a
5 metering value, a multi-pattern metering value, light distribution status of an object,
vertical/horizontal positioning, camera motion [which causes a blurred photograph] and
temperature.

8. (Amended) The compression coding method according to any one of Claim 1 to
Claim 4, wherein [said] the image capturing condition is at least one of [the conditions of the lens
which capture said image data, that is,] a use of a macro-shot, an image magnification, depth of
field, an aperture value, a focal length, an angle of view, an object distance, a focusing status, a
5 multi-point focusing status and a type of lens.

~~9. (Amended) The compression coding method according to Claim [5] 8, wherein
[said] the image capturing condition is at least one of [the conditions of the lens which capture~~

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said image data, that is,] an image magnification, a focusing status and a multi-point focusing status.

10. (Amended) A mechanically readable recording medium [which record] having a compression coding program for having a computer execute the compression coding method according to [one of] Claim 1 [to Claim 9] recorded thereon.

Please add new claims 12-23 as follows:

--12. A mechanically readable recording medium having a compression coding program for having a computer execute the compression coding method according to Claim 2 recorded thereon.


13. A camera device comprising the recording medium according to Claim 12.

14. A mechanically readable recording medium having a compression coding program for having a computer execute the compression coding method according to Claim 3 recorded thereon.

15. A camera device comprising the recording medium according to Claim 14.

16. A mechanically readable recording medium having a compression coding program for having a computer execute the compression coding method according to Claim 4 recorded thereon.

17. A camera device comprising the recording medium according to Claim 16.

 18. A mechanically readable recording medium having a compression coding program for having a computer execute the compression coding method according to Claim 5 recorded thereon.

19. A camera device comprising the recording medium according to Claim 18.

20. A mechanically readable recording medium having a compression coding program for having a computer execute the compression coding method according to Claim 6 recorded thereon.

21. A camera device comprising the recording medium according to Claim 20.

22. A mechanically readable recording medium having a compression coding program for having a computer execute the compression coding method according to Claim 7 recorded thereon.

23. A camera device comprising the recording medium according to Claim 22.

Amend
24. A mechanically readable recording medium having a compression coding program for having a computer execute the compression coding method according to Claim 8 recorded thereon.

25. A camera device comprising the recording medium according to Claim 24.

26. A mechanically readable recording medium having a compression coding program for having a computer execute the compression coding method according to Claim 9 recorded thereon.

27. A camera device comprising the recording medium according to Claim 26.
